



P. O. BOX 1037 SOUTH SIDE STATION • SPRINGFIELD, MO. 65805 • TELEPHONE 417 • 862-4343 • TELEX: 436424 • CABLE ADDRESS: REYCO

June 14, 1972

City of Springfield  
City Hall  
830 Boonville Avenue  
Springfield, Missouri 65801

Attn: Mr. Everett L. Balk P.E.  
Sanitary Engineer

Dear Mr. Balk:

The purpose of this letter is to advise you of the progress in our program to eliminate the water pollution problem attributable to the spray water overflow from the Rotoclone in the foundry that was being discharged directly into the storm sewer.

At this writing, the problem has been corrected in its entirety so that there is absolutely no possible way for the discharge waste to find its way into the drainage ditch.

Our foundry maintenance crew has inspected, cleaned, and repaired the float system in the Rotoclone. A new float valve, ball float, and rod were installed and properly adjusted to maintain the water level to assure no danger of overflow.

On Monday, May 8, 1972, I personally inspected the Rotoclone and its operation and found no evidence of overflow. From this date forward, I have made constant daily checks to assure that the system has been operating properly.

In the meantime, we have taken the next step to assure safe operation of the Rotoclone. The overflow pipe has been disconnected so that it no longer flows into the storm drain in the foundry yard area. Further, the drainage ditch has been cleaned of all debris and discharge created by the overflow.

We received a letter from the Army Corps of Engineers, Little Rock District, dated May 10, 1972, stating in effect that it would not be necessary to apply for a permit if there would be no discharge from our plant other than into the city sanitary sewer system.

I trust that these actions meet with your approval as it completely eliminates the overflow from the Rotoclone from flowing into the drainage ditch.

. . .

600 N. PROSPECT



P. O. BOX 1037 SOUTH SIDE STATION • SPRINGFIELD, MO. 65805 • TELEPHONE 417 • 862-4343 • TELEX: 436424 • CABLE ADDRESS: REYCO

March 14, 1972

City of Springfield  
City Hall  
830 Boonville Avenue  
Springfield, Missouri 65801

Attention: Mr. Everett L. Balk P.E.  
Sanitary Engineer

Dear Mr. Balk:

On Thursday, March 9, 1972, two engineering technicians from your office visited our plant to reinspect the two areas that were contributing to stream pollution and to determine what action had been taken to correct the problems.

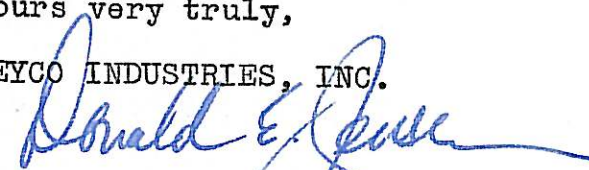
First of all, the spray water in the cyclone outside the Foundry was being discharged directly into the storm sewer. We have repaired the float and the float valve so that no overflow water is going down the drain. The sludge is conveyed to a collection tank and hauled away. The problem has been corrected.

Secondly, waste oil from the servicing of company vehicles was entering the yard drains and thence into the storm sewer. Instructions have been issued to our employees to stop this practice of dumping waste oil in the yard area. A 55 gallon drum has been provided in the maintenance shop for the collection of waste oil. The Hugh Dennis Oil Company collects this waste oil on a periodic basis. There will be no waste oil dumped into the yard area.

If you have any further questions, do not hesitate to contact me for further information.

Yours very truly,

REYCO INDUSTRIES, INC.

  
Donald E. Jensen  
Manager - Quality &  
Safety Assurance

DEJ:cm

cc: Mr. James C. Ward - Vice President - Automotive Division  
Reyco Industries, Inc.

ALSO REYCO OF CANADA GRIMSBY, ONTARIO SUBSIDIARY OF REYCO INDUSTRIES, INC.

600 N. PROSPECT











CITY UTILITIES OF SPRINGFIELD, MISSOURI

301 E. Central St. — Telephone UN 5-8311

PLEASE PAY WHEN RECEIVED

PLEASE USE THIS STUB FOR PAYING BY MAIL.

METER READING	MULTIPLIER	CONSUMPTION	AMOUNT	ACCOUNT NUMBER	AMOUNT
6703		70	42.61	1828	42.61
6703		70	16.18	21530	16.18
				<div><div>WATER</div><div>ELECTRICITY</div><div>GAS</div></div>	
				<div><div>AMOUNT</div><div>STATE SALES TAX</div><div>WHEN APPLICABLE</div></div>	
				<div><div>PLEASE BRING ENTIRE BILL WITH YOU.</div></div>	

SERVICE TO

MO. DAY

427

KW DEMAND

TOTAL AMOUNT

5879

DELINQUENT DATE

MO. DAY

912

TOTAL AMOUNT

5879



## EQUIPMENT

UNIT	MILES	HOURS	RATE	AMOUNT
T3-20 10031				
10021	10	45		4.50
T2-3747630				
47620	10	2		2.00
TOTAL				

## MATERIALS

[illegible]

## COST SUMMARY

PERSONAL SERVICES	EQUIPMENT	MATERIALS	TOTAL DIRECT COST	OVERHEAD	TOTAL
19.12	6.50		25.62		
PERFORMANCE					
UNIT Cost					
QUANTITY					
UNIT COST					

DATE STARTED \_\_\_\_\_

DATE COMPLETED \_\_\_\_\_

DATE STARTED:

DATE COMPLETED

CHIEF

1. *...*  
2. *...*  
3. *...*  
4. *...*  
5. *...*  
6. *...*  
7. *...*  
8. *...*  
9. *...*  
10. *...*



## Compliments of

**LA EWALLEN  
DVERTISING**

227 E. Sunshine -- Springfield, Missouri  
(417) 862-5081

✓ Antrol 550-P  
- Water Sol. Coolant

Van Straaten

630 W. WASH BLVD.

Ch. I 11.

312-454-1000

Mr. Tausen

Revco

**BUILD SALES WITH**



## SCRATCH PADS

Item	Unit	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-55	2255-56	2256-57	2257-58	2258-59	2259-60	2260-61	2261-62	2262-63	2263-64	2264-65	2265-66	2266-67	2267-68	2268-69	2269-70	2270-71	2271-72	2272-73	2273-74	2274-75	2275-76	2276-77	2277-78	2278-79	2279-80	2280-81	2281-82	2282-83	2283-84	2284-85	2285-86	2286-87	2287-88	2288-89	2289-90	2290-91	2291-92	2292-93	2293-94	2294-95	2295-96	2296-97	2297-98	2298-99	2299-00	2300-01	2301-02	2302-03																																																																																																																																																																								
Food 1313	1000 Pcs	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22	158.22

Blue, Red or Black ink — Blue & Red ink \$15 extra — other sizes equally low

CITY OF SPRINGFIELD, MISSOURI  
DEPARTMENT OF PUBLIC WORKS

**JOB ORDER**

Date 8-14-74 Code 303-

Division St. Cleaning Section 11-6601

### Location and Description

Cleaning National St. at Reynolds Manufactory.

Requested by S. White Date \_\_\_\_\_

## PERSONAL SERVICES

EMPLOYEE	HOURS	RATE	AMOUNT
Paul Earls	2		10.14
Ernie Carter	2		8.98
TOTAL			

## Compliments of



February 22, 1972

Mr. Don Jensen  
Manager of Safety and Quality Assurance  
Reynolds Manufacturing Company  
600 North Prospect  
Springfield, Missouri

Dear Mr. Jensen:

On February 10, Mr. Joe Allen of the City-County Air Pollution Control Office, myself and two engineering technicians met with you at your plant to discuss the following two problems which are contributing to stream pollution:

1. Spray water in a cyclone near the casting area was being discharged directly into a storm sewer. This water is normally recirculated through the cyclone with no discharge.
2. Waste oil from the servicing of vehicles has entered yard drains and a floor drain in the main shop. These drains are connected to the storm sewer.

Our understanding was that the circulating pump in the cyclone would be repaired in the near future to prevent any discharging of spray water and that you will improve your housekeeping procedures to prevent any oil from entering the storm sewer. We plan to reinspect these facilities in approximately 30 days to view your progress.

If you have any questions, please feel free to contact us at any time.

Yours truly,

Everett L. Balk, P.E.  
Sanitary Engineer

ELB:cc

ccs: Corps of Engineers, Little Rock  
Missouri Water Pollution Board, Steve Decker

600 N. PROSPECT



May 4, 1972

Mr. Donald E. Jensen  
Manager, Quality & Safety Assurance  
Reyco Industries, Inc.  
P.O. Box 1037 SSS  
Springfield, Missouri 65805

Dear Mr. Jensen:

On May 3, 1972, we received a citizen's complaint, through the Clean Water Commission, of an industrial waste spill in the small creek along the south side of your foundry.

Upon investigation of this complaint I found that liquid from the scrubber in the foundry building was being discharged directly into the stream. This liquid was black in color, contained a lot of suspended material, enough light oil to show a fairly heavy oil sheen on the top of the water, and there was some heavier oil deposited along the pools and edges of the stream. At the time of my investigation the discharged had been stopped. Following this I contacted you and you indicated you did not know what the problem was but would make an immediate investigation to see that it didn't reoccur. During this visit I requested that you pump the liquid waste out of this ditch and clean up the residue. On April 4, 1972, Mr. Joe Allen of the City-County Air Pollution Office and myself met with you at your office and, upon viewing the facility mentioned above, found that it was again discharging into the stream.

In accordance with our discussion at that time, we request that you stop this discharge to the stream. In view of the fact that a similar occurrence happened on approximately February 10 of this year, it appears that the mechanical operation of the liquid handling portion of the air pollution control device for the foundry is by no means designed or operated in a failsafe manner. We would like for you to review this design and your operating procedures and submit to us your plan to provide the necessary backup equipment or alarm-failure shutdown devices to prevent this discharge from occurring.

We appreciate your cooperation in solving this problem and will be glad to work with you in any way we can.

Yours truly,

Everett L. Balk, P.E.  
Sanitary Engineer

ELB:cc

ccs: Dick Paul, Corps of Engineers  
Joe Allen, City-County Air Pollution Control  
Steve Decker, Missouri Clean Water Commission

600 N. PROSPECT

Attn: Mr. Crionell

## LABORATORY ANALYSES

Jan 14 1975

## Coded Samples

~~1 Gm~~ 1 Gm / 40 ml solvent

[illegible]

600 N. PROSPECT



Sand - C-?  
Fe  
Mg  
Li

1/7/74

Na ✓  
Fe ✓  
Li ✓  
Ph -?  
V ✓  
C - ?

✓ confirmed  
? possible

Smoke - Zn  
Mg-?  
Fe  
Ca  
Li  
C-?

Samples  
from  
Reyco.

Slag - Li  
Ca  
Mg-?  
Fe  
C-?

Before  
Seperation  
Fe  
C-?  
Li  
Zn-?

600 N. PROSPECT



Attn: Harry Orlin  
LABORATORY ANALYSES

4 March 11 19 75

0.56M / 25 ml

600 N. PROSPECT



## LABORATORY ANALYSES

Jan 28 19 75

Attn: Harry Criswell

[illegible]



CITY OF SPRINGFIELD  
INTER-OFFICE MEMORANDUM

ATTENTION OF Harry Criswell, Associate Sanitary  
Engineer

DATE March 6, 1975

DEPARTMENT \_\_\_\_\_

The Missouri Solid Waste Management Law (Senate Bill No. 387, 76th General Assembly) states in Section 260.205 that "After June 30, 1973, it is unlawful for any person to operate a solid waste processing facility or solid waste disposal area of a solid waste management system without first obtaining a permit from the division." Furthermore, it makes it unlawful for any person to "Dump or deposit, or permit dumping or depositing of any solid wastes onto the surface of the ground or into streams, springs, and all bodies of surface or ground water, whether natural or artificial, within the boundaries of the state except in a solid waste processing facility or solid waste disposal area having a permit as required by Section 260.205." The law also provides for the development of rules and regulations relating to issuances of such permits. In those rules and regulations Section 1.6.0 states that the following disposal areas or facilities are not required to obtain permits:

1. Areas receiving only soil, rock and similar material.
2. Any on-site facility which processes solid waste from an individual or single building provided the facility is located on the premise where refuse originates.
3. For use of solid waste in normal farming operations.

In each case, however, the facility must be operated in such a manner that it will not create a public nuisance or adversely affect the public health.

Senate Bill 98 is now before the General Assembly to modify portions of this law. The above sections are not affected, however.

GMC:cc

SIGNED Gregory M. Cole, Sanitary Engineer  
Sanitary Services

600 N. PROSPECT



REYCO INDUSTRIES

(All Parameters Reported in Milligrams per Liter)

<u>Date &amp; Sample</u>	<u>Solvent</u>	<u>Carbon Total</u>	<u>Carbon Organic</u>	<u>Oxygen Demand Biochemical*</u>	<u>Oxygen Demand Chemical</u>
1-14-75					
Slag	pH 4	22	12		
	pH 6	15	13		
	pH 7	8	5		
Smoke	pH 4	530	515		
	pH 6	657	653	0	
	pH 7	663	649	0	
Sand	pH 4	778	770		
	pH 6	820	813	0	
	pH 7	773	767	0	3570
Mixture	pH 4	190	174		
	pH 6	165	139		
	pH 7	155	139		
3-3-75					
Smoke	pH 6	1853	1833	0	3540
Sand	pH 6	1846	1832	0	4230
Mixture	pH 6	923	907	25	1560

\*All B.O.D. results show apparent gross inhibition of biological processes. This is probably due to heavy metal toxicity. All samples showed very high levels of iron as analyzed by Arc-emission Spectroscopy.

600 N. PROSPECT

March 21, 1975

Mr. Al Bowers  
Reyco Industries, Inc.  
P.O. Box 1037 S.S.S.  
Springfield, Missouri 65805

Dear Mr. Bowers:

Thank you for the courtesy extended our personnel on visits to your plant location. Pursuant to our discussions with you and Mr. Hedges earlier this year, we sampled various waste products from your operation. First analyses indicated that some problem in disposal might exist and further sampling and analyses followed. The results of all analyses are attached to this letter. The samples collected were allowed to stand overnight in water solutions of varying acidities. An attempt was made in laboratory, to duplicate those conditions which existed or could exist in the proposed disposal site.

The analyses seem to indicate that very real problems are likely to result if disposal were allowed. The levels of Carbon and C.O.D. are quite high and the apparent inhibition of B.O.D. indicates a substance or substances highly toxic to biological organisms. Bear in mind too, that these analyses show only the levels of pollutants leached from the solid material we collected at your plant.

In addition to these considerations, attached please find a short narrative regarding the Missouri Solid Waste Management Law, which I believe is self-explanatory. We find that the City cannot approve your request to dispose of waste from your facility within the quarry. We appreciate having the opportunity to work with you. If we may be of further assistance, or can answer any questions please do not hesitate to call.

Yours truly,

Charles H. Criswell  
Associate Sanitary Engineer

CHC:sw  
Attachments: (2)

cc: Mr. Jim Burris, Regional Engineer, Missouri Dept. Natural Resources  
Mr. Jim Hedges, Hedges Hydraulics  
Mr. Harold Bengsch, Supt. Public Environmental Health  
Public Works File

600 N. PROSPECT

### All-purpose Cutting Fluid Concentrate

VANTROL 550-P is a water soluble, semi-synthetic cutting fluid for machining and grinding ferrous and non-ferrous metals. This is the product for milling, turning, drilling and other moderate duty machining and grinding operations that require outstanding cleanliness and rust control. Whether you are running a job shop and need trouble free performance on a wide variety of metals and operations, or a continuous production operation that requires peak efficiency, long fluid life and low maintenance expense, VANTROL 550-P is the product to choose.

#### Key performance characteristics . . . . .

- . . . . . **Outstanding cleanliness** promotes safety, keeps machine tools working efficiently and grinding wheels open and free cutting. No slippery oily residues, no salty deposits on either the machine tool or work piece.
- . . . . . **Effective rust control** based on combined polar and passivating rust protection, prevents in-process corrosion of steel and cast iron and helps protect machine tools from damaging bimetallic corrosion.
- . . . . . **Resists depletion** due to rancidity and mold growth, ends Monday morning odor problems. Provides extended service in recirculating central systems.
- . . . . . **Stable, easy to mix** even in hard water, forming a translucent, blue-green mix that permits the machinist to see his work in progress. Low foaming in soft water.
- . . . . . **Safe and pleasant to use**, mild to machine operator's skin, clean, non-flammable, characterized by a fresh neutral odor.

#### Typical applications . . . . .

- In a large job shop**, milling, turning, grinding a variety of metals (primarily steel), water hardness 10 grains, VANTROL 550-P at 30:1 proves its versatility in a variety of operations. Machine operators appreciate the clean, blue-green mix that is non-irritating to the skin and neutral in odor. Managers can depend on extended performance, lower fluid maintenance costs because of the unusually effective rust and rancidity control.
- In automatic chuckers** and turret lathes, machining mild steel, VANTROL 550-P at 20:1 provides extended service with freedom from rancidity. Even in hard water areas, the mix remains clean and stable. There are no sticky or gummy residues on machine or workpieces. Slides remain properly lubricated and move freely without sticking or jumping. Tools are easy to remove at the end of long production runs. Maintenance and down time are significantly reduced.
- In a central filtration system**, for centerless grinders, Gardners and a Blanchard grinding steel and cast iron, vacuum filter with paper media, VANTROL 550-P at 30:1 in 15 grains hard water, provides months of trouble free service. Little more than routine checks and make-up is required to keep the system running efficiently, and except for eventual contamination with large quantities of tramp oil, the system could probably operate indefinitely without dumping.



# vantrol 550-P All-purpose Cutting Fluid Concentrate

## Typical Physical and Chemical Characteristics

The values shown here are representative of typical laboratory tests of commercial production of VANTROL 550-P and are not specifications for this product.

Specific Gravity, 60/60° F.	1.025
Pounds per Gallon at 60° F.	8.5
Flash, Concentrate (COC)	None
pH (Fresh 20:1 Mix)	9.4
pH (Fresh 40:1 Mix)	9.3
Color	Transparent to Translucent Blue-green

## Recommended Starting Dilutions

Milling, drilling, turning	20:1 to 30:1
Centerless and internal grinding	20:1 to 40:1
Cylindrical and surface grinding	30:1 to 40:1

For heavy duty machining and grinding, use VANTROL 700 or see your Van Straaten Sales Engineer for alternate recommendations.

## Compatability with work materials

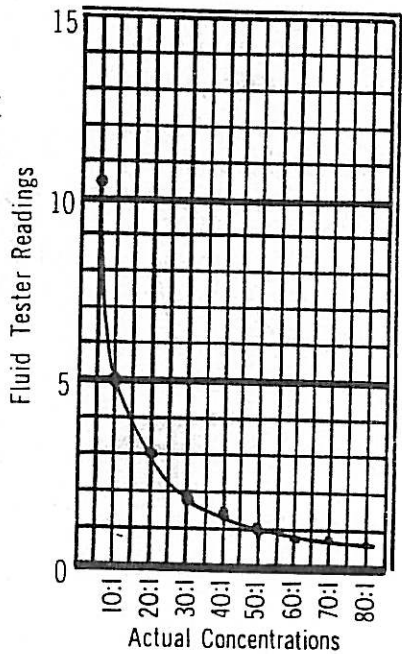
Use VANTROL 550-P for moderate duty machining and grinding of ferrous and non-ferrous alloys. Non-staining to aluminum and copper alloys.

Concentration checks by American Optical Company Fluid Tester, distributed by the Van Straaten Chemical Company. (Refer to conversion chart at right).

Storage and handling: Non-flammable, mildly alkaline solution. Spills may be washed away with water. Mild, non-irritating to the skin when used as directed, in accordance with standard industrial practice.

Disposability: Contains no phosphates or active sulfur. See your Van Straaten Sales Engineer for information on industrial waste water treatment methods applicable to your area.

Packaging: 5 gallon pails, 55 gallon drums, tank trucks.



December 5, 1980

Mr. Roy C. McDowell, Environmental Engineer  
Reyco Industries, Inc.  
P.O. Box 1037 South Side Station  
Springfield, Missouri 65805

Re: 16-45-6100

Dear Mr. McDowell:

This office was forwarded your letter of November 5, 1980, requesting sewer volume calculations based on 50 percent of actual water consumption. The 50 percent factor was based on your process meter readings over a six month period.

This letter will advise Reyco that a recent policy change now requires all deducts from the sanitary sewer be verified by an approved metering device. Therefore, to continue your sanitary sewer deductions, the areas of water loss must continue to be metered.

This office regrets any inconvenience that may occur due to the policy change but the end result will more truly reflect actual conditions. If we can be of any assistance, please feel free to call.

Yours truly,

J. Randall Lyman  
Water Pollution Control Inspector III  
Surveillance & Enforcement

JRL:js

cc: Revenue & Billing

600 N. PROSPECT



August 3, 1988

Mr. Ron Fau  
Reyco Industries, Inc.  
P.O. Box 2268  
Springfield, MO 65801-2268

Dear Mr. Fau:

In response to your recent inquiry regarding the possibility of discharging a waste cooling lubricant from metal cutting machines to the Publicly Owned Treatment Works (P.O.T.W.) and effluent limitations that may pertain, please find enclosed copies of 40 CFR 433 (metal finishing), 40 CFR 464 (metal molding and casting) and Chapter 30 of the Springfield City Code (Wastewater Regulations).

If you have any questions, please call me at 864-1924.

Yours truly,



J. Randall Lyman  
Sewer Surveillance and Billing Supervisor

JRL:js

Enclosures

cc: Robert R. Schaefer, P.E., Superintendent of Sanitary Services  
Henry Cole, P.E., Sanitary Engineer  
Gene Pabst, Water Pollution Control  
File

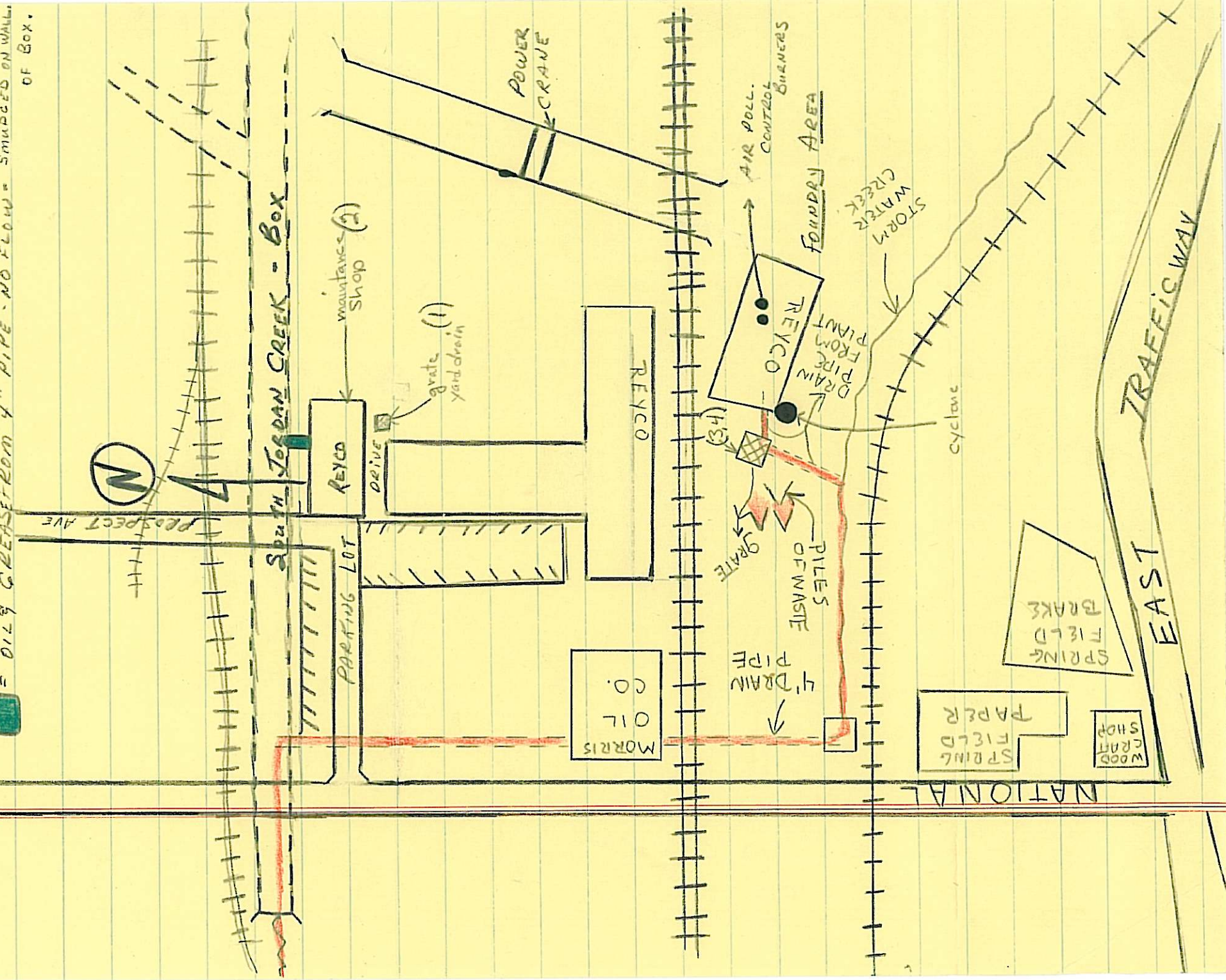
600 N. PROSPECT

FIVE  
REYCO

POSSIBLY WASHING + DRAINAGE  
FROM REYCO INTO STORM SEWERS  
+ SOUTH JORDAN CREEK. 11/3/72 CORSON,  
LYMAN,  
MARTIN.  
ALSO OIL TRACES

■ = BLACK SUBSTANCE IN STORM SEWER

■ = OIL & GREASE FROM 4" PIPE - NO FLOW - SMUDGED ON WALL  
OF BOX.





Study of Reyco Industries by Lyman & Carson  
February 7, 1972

<sup>Don</sup> Mr. ~~Bob~~ Jansen - Manager of Safety and Quality Assurance  
<sup>Don</sup> Mr. ~~Bob~~ Jansen was contacted and gave us a tour of the plant and facilities. Our findings will be enumerated:

1). Dyeing of a yard drain revealed that oil and surface water is entering the storm sewer to the north in wet weather conditions. Reason for oil entering the storm sewer is most probably related to the fact that the oil sump in the yard drain is completely clogged and any water or anything running into the drain may go directly out the pipe into the storm sewer.

2). Dyeing of a grease pit in the maintenance shop revealed that any spillage of oil in the grease pit will go directly into the storm sewer to the north. Only smudge on wall of box (storm sewer) indicates recent spillage of oil in grease pit.



- 3). A grate just west of the foundry has a considerable flow in it. The water in the drain is loaded with a black substance which is coming from a cyclone in the foundry. According to Mr. Jensen, the cyclone collects the dust and so forth through the ventilation system and garage water on the dust particles therefore forming a sludge. When operating properly the water is recycled and the sludge is removed off the bottom. However, Mr. Jensen stated that the cyclone is not operating properly and the water is not recycled and the sludge is being dumped into the storm sewer.
- 4). Also the grate just west of the foundry may be flooded in time of high water and moulding sand etc. may be washed into the storm sewer to the south of the plant.



Also, Mr. Jensen stated that  
any oil and grease used around  
the machinery etc. was drained  
down the sanitary sewer, he  
supposed. (?)

75092099 N 000  
000 N. 66026507

City of Springfield  
City Hall  
830 Boonville Avenue  
Springfield, Missouri  
Page Two

If I can be of further service in this matter or answer any questions you may have, please do not hesitate to call on me.

Very truly yours,

REYCO Industries, Inc.

Donald E. Jensen  
Manager-Quality & Safety Assurance

DEJ:ml

cc: R. Looney  
J. Ward  
N. Rapagnani

Dept. of the Army - Little Rock District

600 N. PROSPECT



May 15, 1972

Mr. Steve Decker  
Missouri Clean Water Commission  
1150 East Latoka  
Springfield, Missouri 65804

Dear Steve:

Attached is a copy of a letter from Reyco in reference to the recent complaint we had.

During the rain last Friday, May 12, 1972, I did some sampling of their storm runoff and it appears to be in a degraded condition. After I get the lab analysis back on this runoff I will give you a call as it seems Reyco may have some work to do.

Yours truly,

Everett L. Balk, P.E.  
Sanitary Engineer

ELB:cc

Enclosure

600 N. PROSPECT



P. O. BOX 1037 SOUTH SIDE STATION • SPRINGFIELD, MO. 65805 • TELEPHONE 417 • 862-4343 • TELEX: 436424 • CABLE ADDRESS: REYCO

May 12, 1972

City of Springfield  
City Hall  
830 Boonville Avenue  
Springfield, Missouri 65801

Attention: Mr. Everett L. Balk, P.E.  
Sanitary Engineer

Dear Mr. Balk:

On May 3rd and 4th, you visited our plant and examined our Roto Clone in the foundry yard area and discovered that the spray water overflow was being discharged directly into the storm sewer.

On Saturday, May 6th, the Roto Clone was completely cleaned out and serviced. A new float and float arm has been installed to control the water level. Since this installation, I have checked the system daily and found no evidence of overflow into the yard drain.

We have established a program of daily and weekly maintenance procedures to insure proper operation of the equipment. We will keep watch on a daily basis for any signs of effluent. Finally, we will check the mechanical float for proper operation on a weekly basis.

We are now reviewing the design of the float system in an attempt to develop a fail safe device for controlling the water level. We are investigating electronic sensors to replace the mechanical float. I will keep you advised of the progress on this program.

Arrangements have been made with the Foundry Manager to have his personnel clean out the ditch as soon as possible.

If you have any further questions, do not hesitate to contact me for further information.

Yours very truly,

REYCO Industries, Inc.

Donald E. Jensen  
Manager, Quality & Safety Assurance

DEJ:ml

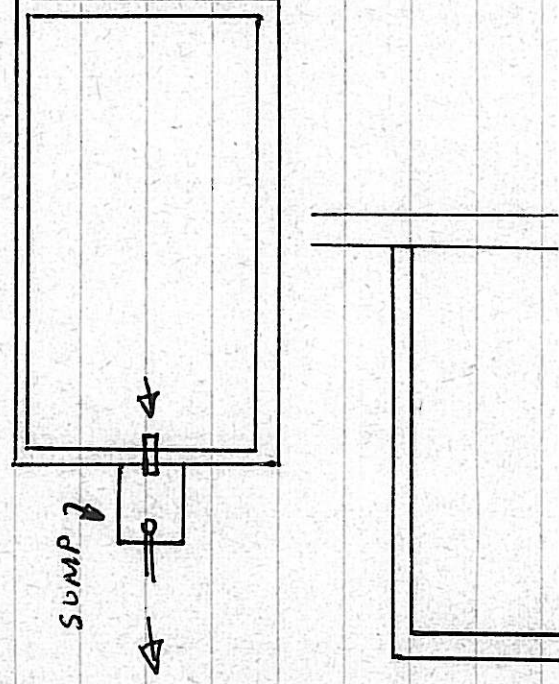
cc: J. Ward  
R. Looney  
N. Rapagnani

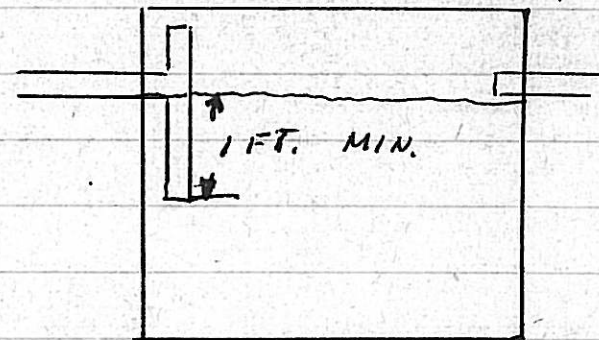
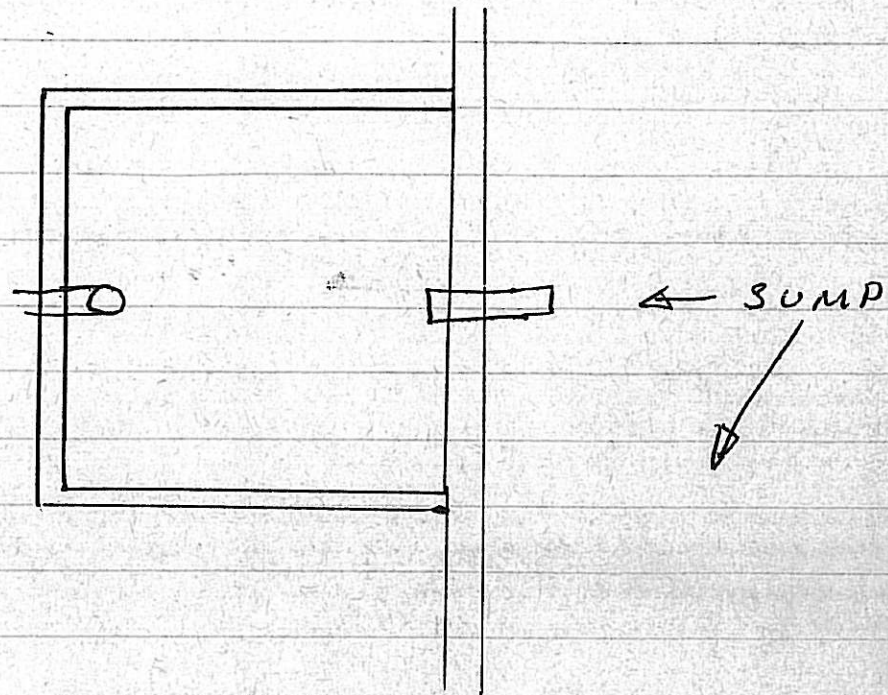
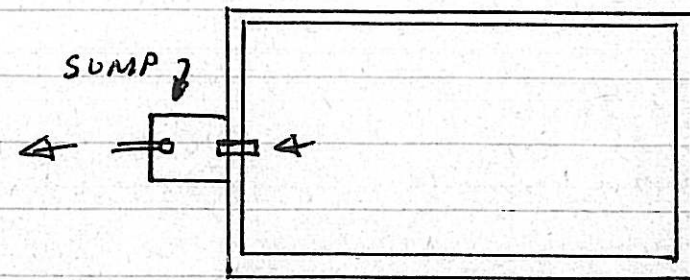
600 N. PROSPECT



## REYNOLDS MFG CO.

AFTER MORE CONSIDERATION OF THE WASTE OIL PROBLEM AT REYCO THE BEST WAY I CAN THINK OF TO CORRECT IT IS TO RECOMMEND THE CONSTRUCTION OF A CONCRETE SLAB WITH CURBING AND A SUMP INTO WHICH THE LIQUID CAN DRAIN. THE SUMP SHOULD HAVE A TEE OUTLET AND POSSIBLY A BAFFLE SO THAT THE WATER CAN DRAIN AWAY AND THE OIL IS RETAINED FOR REMOVAL.







UNA-4043

ARM

REYNOLDS MFG CO.

OCT 12, 1960

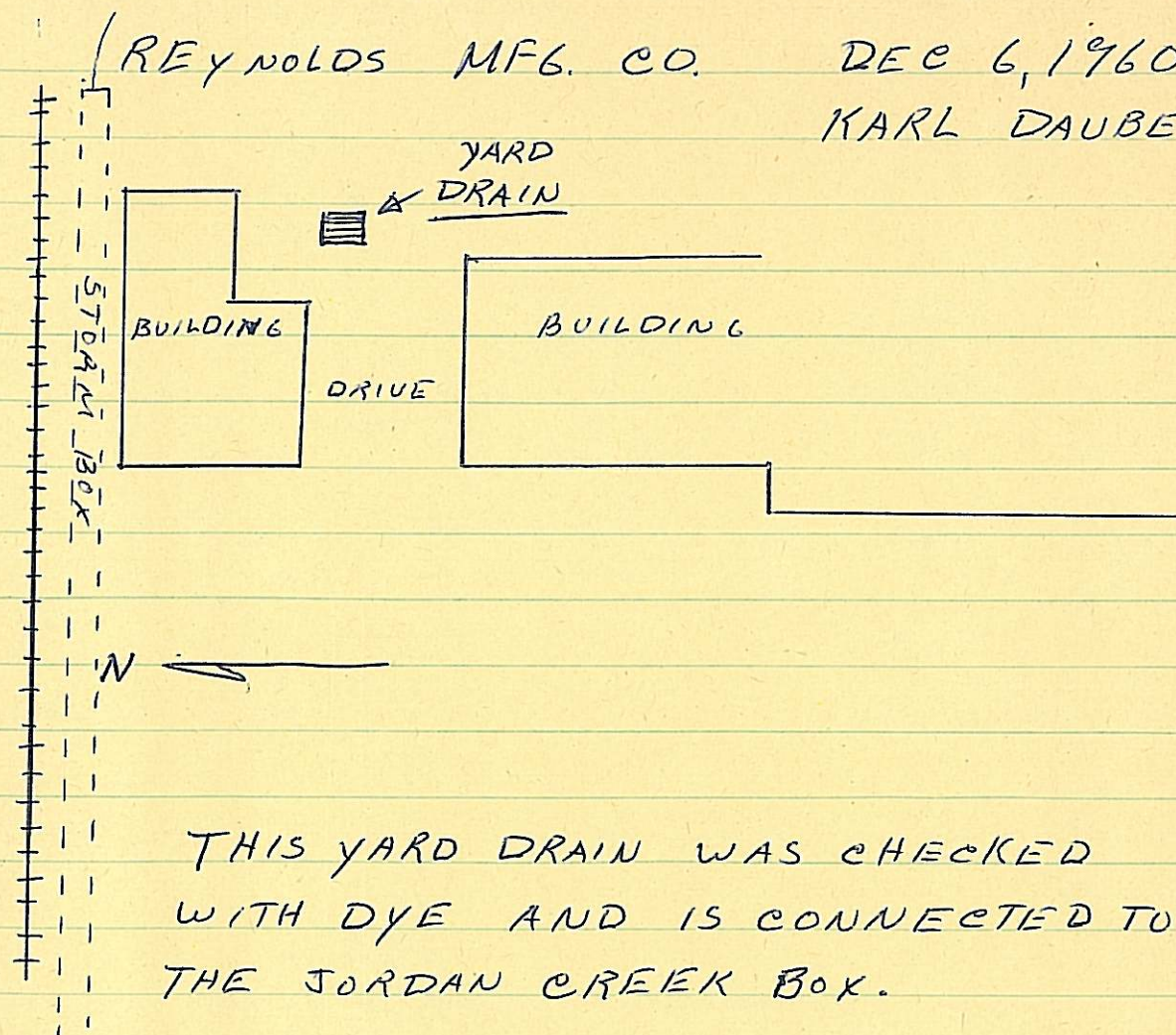
By KARL DAUBEL

I CONTACTED MR CAIN AND DELIVERED  
TO HIM A COPY OF THE SEWER USE ORD.  
AND INFORMED HIM OF THE OIL DRAINING  
INTO JORDAN CREEK. HE SAID HE HAD  
JUST JOINED THE COMPANY AND WAS NOT  
AWARE OF THIS SITUATION. HE ALSO  
SAID HE WOULD CALL YOU ABOUT  
CORRECTING THE PROBLEM.

REYNOLDS MFG. CO.

DEC 6, 1960

KARL DAUBEL



THIS YARD DRAIN WAS CHECKED  
WITH DYE AND IS CONNECTED TO  
THE JORDAN CREEK BOX.



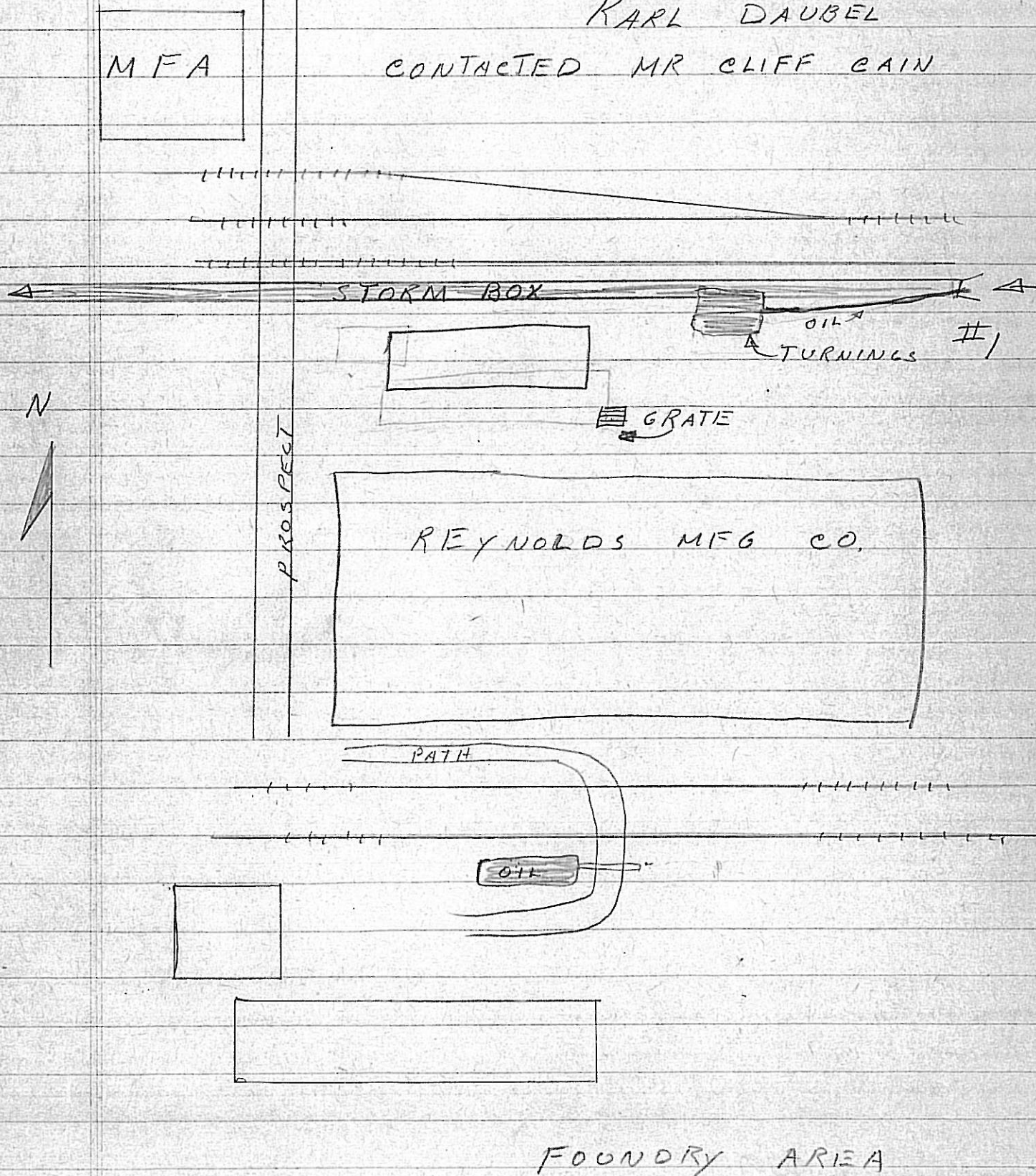
WASTE SURVEY REYNOLDS MFG CO.

600 PROSPECT

AUGUST 22, 1960

KARL DAUBEL

CONTACTED MR CLIFF CAIN



## FOUNDRY AREA

- #1 OIL IS GETTING INTO THE STORM WATER.
- #2 OIL FROM SMALL PIT IS NOT WASHING AWAY



CITY OF SPRINGFIELD  
INTER-OFFICE MEMORANDUM

ATTENTION OF Winnie Moore, Customer Accounting DATE May 8, 1961.

DEPARTMENT City Utilities

BILLING INSTRUCTIONS

RE: Reynolds Mfg. Co.,  
600 N. Prospect,  
Account 18-28-21530.

This account is to be billed for 50% of actual  
water consumption as per estimates by James B. Monahan of  
Consoer, Townsend and Associates, in May 1956.

ccs-Helen Thomas, Reynolds Mfg. Co.  
File (2) ✓

PB:ns

SIGNED  
A. D. Mayfield, Sanitary Engineer.  
600 N. PROSPECT

# REQUEST FOR SEWER BILL ADJUSTMENT

NAME Reynolds MFG. Co DATE 5, 5, 61

ADDRESS 600 N. Prospect

ACCOUNT NO. 18-28-21530 REPORTED BY \_\_\_\_\_

WHEN DID LEAK OCCUR \_\_\_\_\_

WHERE DID LEAK OCCUR

WHO FIXED THE LEAK	WHEN

PLUMBING BILL SHOWN \_\_\_\_\_

HOW BIG IS THE HOME (NO. OF ROOMS, TOILETS)

HOW MANY LIVING IN HOME

REMARKS See letter attached.

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\_\_\_\_\_

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REPORTED TO \_\_\_\_\_

600 N. Prospect





# REYNOLDS MANUFACTURING CO.

SPRINGFIELD 2, MISSOURI

May 4, 1961

City Utilities of Springfield, Missouri  
301 E. Central Street  
Springfield, Missouri

ATTENTION: Mr. Joe Grant

Gentlemen:

We are returning the attached water bill for correction.

On this particular bill we have only been paying for half of the sewer charge. Your inspector has been to our plant in the past, and it was proven to him that most of the water used never reached the sewer, and he agreed that we should not be billed for the full amount.

Will you please correct this bill and return it to us for payment.

Yours very truly,

REYNOLDS MANUFACTURING CO.



Helen Thomas  
Purchasing Department

HT/as



COPY

CITY OF SPRINGFIELD  
INTER-OFFICE MEMORANDUM

ATTENTION OF: Sewer Service Charge Division

Date July 16, 1959.

DEPARTMENT: Finance

Please add the following to the list of sewerred premises and  
bill effective date listed:

<u>Name</u>	<u>Address</u>	<u>Account Number</u>	<u>Effective Date</u>	<u>Base Reading</u>	<u>R/NR</u>
Reynolds Mfg. Co.	1315 East Trafficway	IBM #18-28-21783	Three months prior to processing date	Actuals	NR

Please issue special bill.

cc: File

SIGNED

A. D. Mayfield  
Sanitary Engineer



FIRM NAME Reynolds Manufacturing Co.ADDRESS 600 N. Prospect TELEPHONE 865-4343PERSONNEL CONTACTED Don Jensen POSITION \_\_\_\_\_

POSITION \_\_\_\_\_

POSITION \_\_\_\_\_

ACTION INITIATED BY: \_\_\_\_\_

- (1) Feb. 22, 1972 Letter from E. Balk to D. Jensen, stating problems with these operations.
- (2) March 14, 1972 Letter to E. Balk from D. Jensen stating that they have fixed problem.
- (3) May 4, 1972 Letter from E. Balk to Don Jensen stating that there is a discharge from their property, directly into South Jordan Creek. Must clean up area & cease discharging.
- (4) Lab analyses on Jan. 14, Jan. 28 & March 11, 1975
- (5) March 21, 1975 - Letter from Criswell to Al Bauers denying Reynold's request to dispose of waste by dumping at the quarry.

600 N. PROSPECT